HP CLIENT VIRTUALIZATION

THIN CLIENT PORTFOLIO & PRODUCT ROADMAP

September 2012

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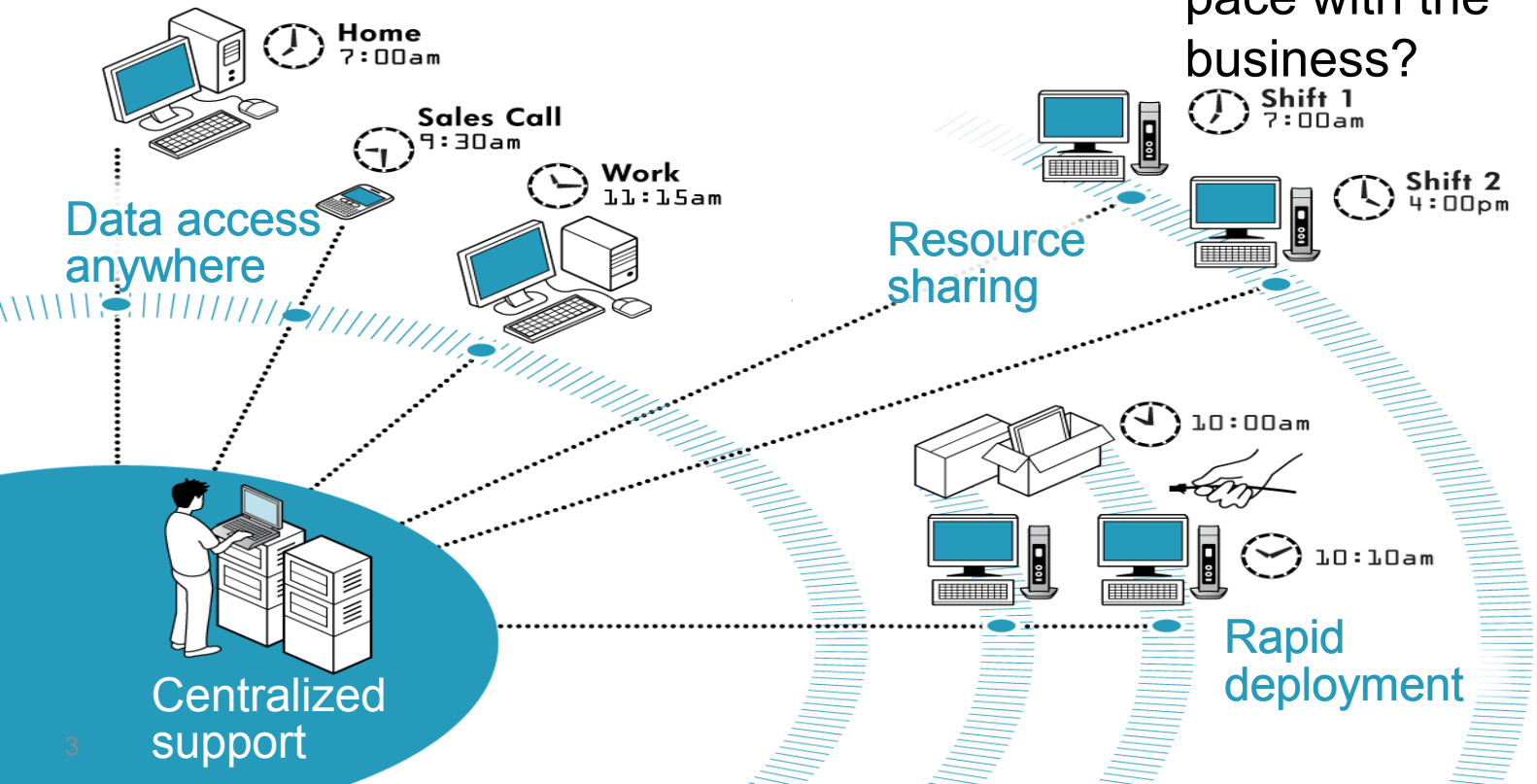
AGENDA

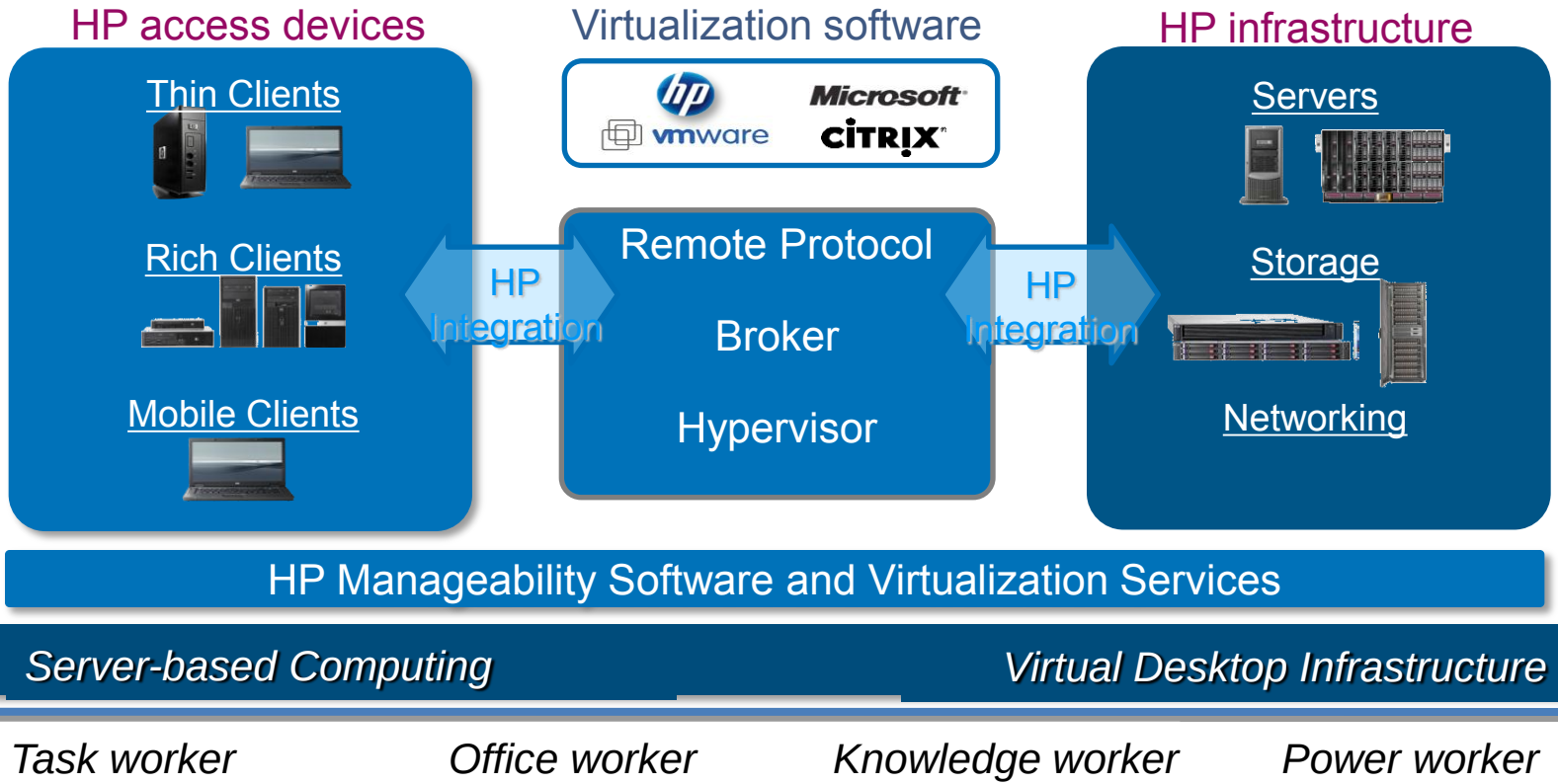
- HP Thin Client introductions
- New HP Thin Client family
- Hardware & Software combinations
- HP Thin Client Manageability

CLIENT VIRTUALIZATION BENEFITS - OPERATIONS

How can IT stay on pace with the business?



CLIENT VIRTUALIZATION INFRASTRUCTURE



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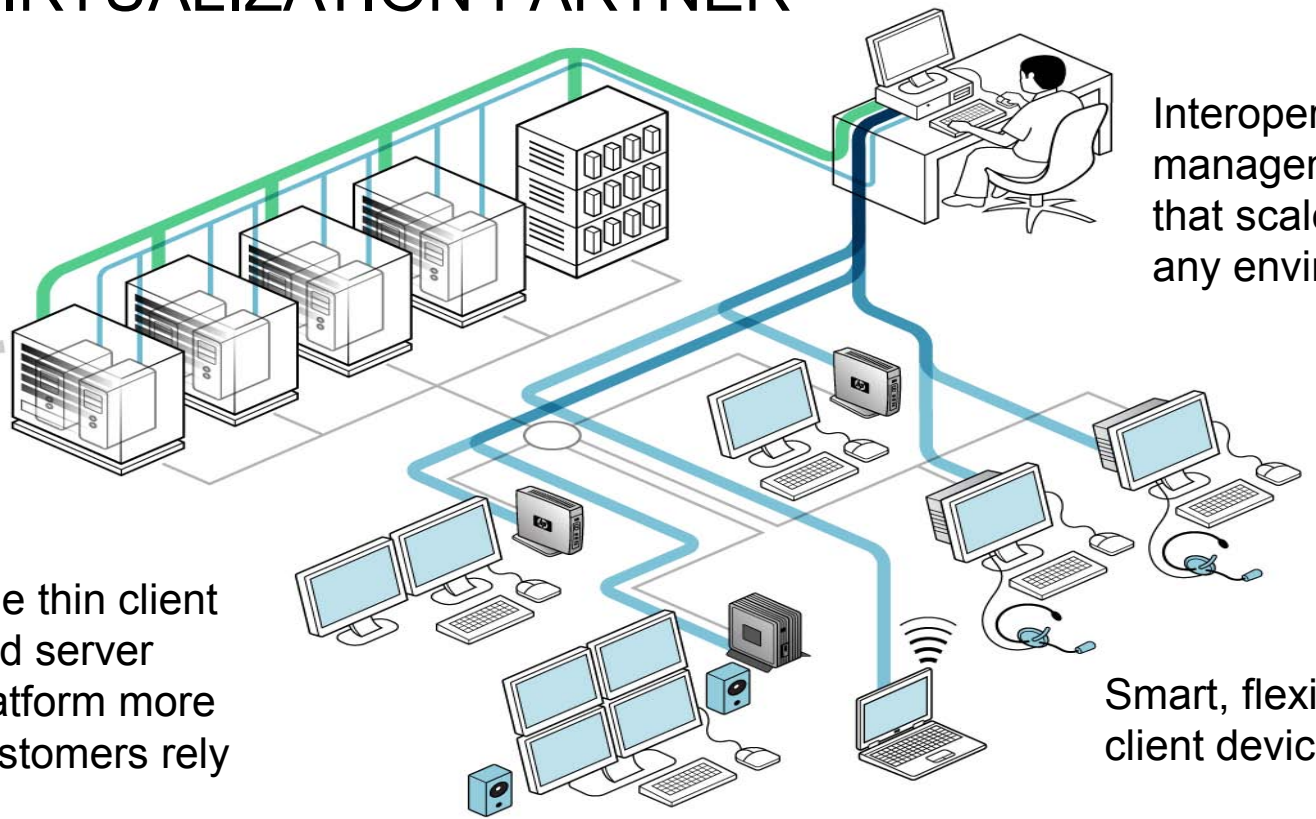
HP IS YOUR SINGLE-SOURCE CLIENT VIRTUALIZATION PARTNER

Leading integrator of virtualization software



Interoperable management tools that scale to almost any environment

The thin client and server platform more customers rely on

Smart, flexible client devices

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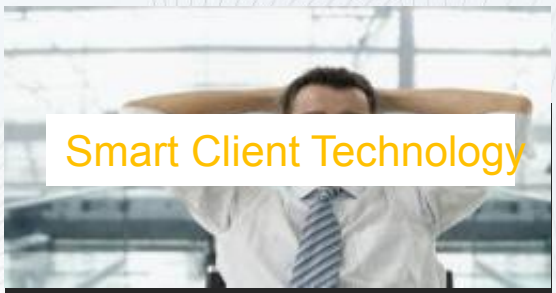
HP THIN CLIENTS VALUE PROPOSITION

Where today‘s topic fit into the HP Value proposition



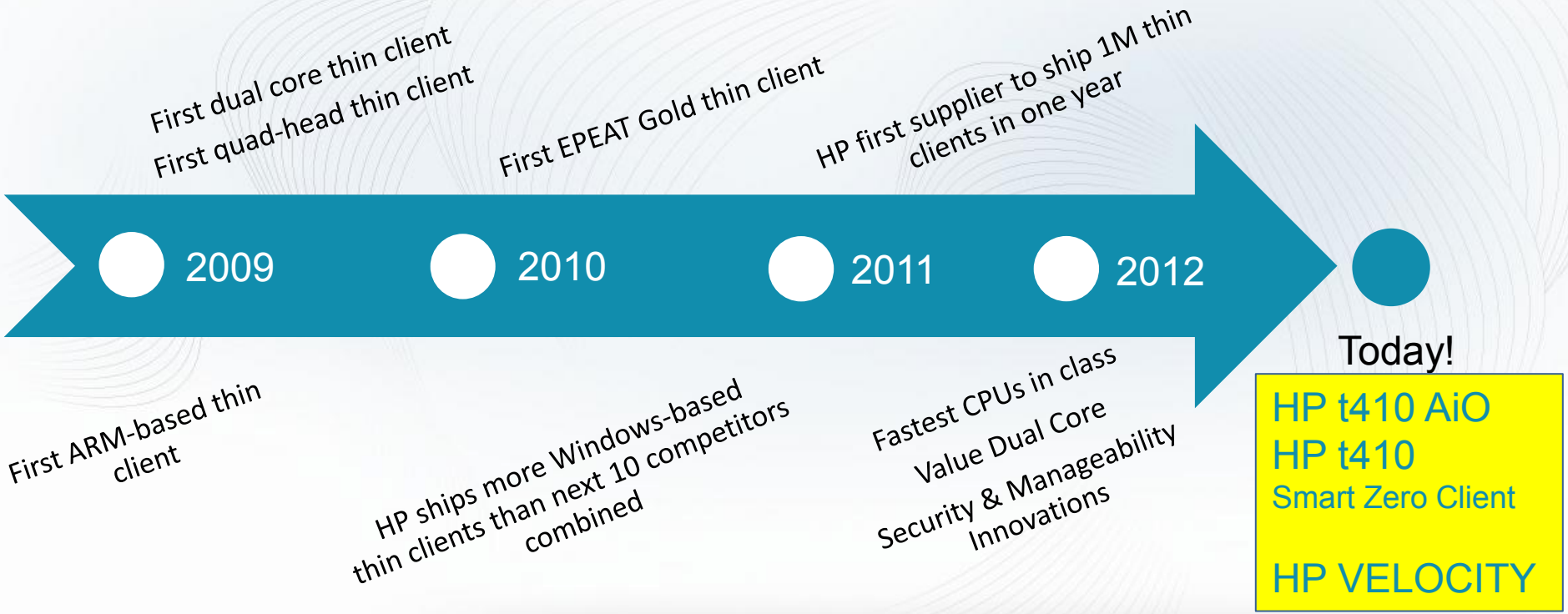
Manageable

Innovative

Flexible

The HP Thin Client Value Proposition

HP THIN CLIENT LEADERSHIP



YOU'VE BEEN WAITING FOR IT:
THE HIGH PERFORMANCE OF A PC IN A SOLID STATE DESIGN.

- True, PC-like experience for virtualized desktop environments
- Improved local application & multimedia performance
- Designed for advanced security and manageability
- New and expanded flexibility for a wide array of business needs
- Extraordinary reliability

The HP t510 and t610
Flexible Series Thin Clients

HP THIN CLIENT FAMILY

Zero

t200

Twice the seats for your budget

TERADICI PCoIP

t310

High performance PCoIP zero clients Teradici II

Smart Zero

t410 AiO & t410

t5335z

EOL

Simple and affordable client virtualization

Flexible

t610

Desktop performance and expandability

t510

Value/Flexibility for Session Virtualization

Easiest to Deploy & Manage

Greater Hardware & Software Flexibility Performance

HP SMART CLIENT TECHNOLOGY

HP SMART ZERO CLIENTS – —DO SMART TO BE CALLED ZERO”

Uncompromised User Experience

No Local UI

Fast and Responsive

Boots Quickly into Host Environment

Zero Footprint

Low Power, Low Cost

No Client-Side Administration

Set & Forget Manageability

- Future Proofed: Smart Client Service for re-provisioning & updates
- Flexible: Support for all key ISV Protocols; Supported on all HP Thin Clients
- Smart: Auto-Sensing & Fall Back Intelligence
- Easy: HP Profile Editor Wizard for easy setup

HP SMART ZERO TECHNOLOGY – HOW DOES IT WORK

DHCP Server

File Server With Smart Zero Client services

Config file | Smart Zero Client Kit

Redirects Client to File Server

1

Connect

Smart zero technology

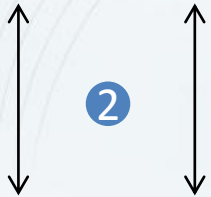
t5335z t410 (AiO) t510 t610

HP SMART ZERO TECHNOLOGY – HOW DOES IT WORK

DHCP Server

File Server With Smart Zero Client services

Config file | Smart Zero Client Kit



Connect

Locally Cached

Smart zero technology

t5335z t410 (AiO) t510 t610

HP SMART ZERO TECHNOLOGY – HOW DOES IT WORK

DHCP Server

File Server With Smart Zero Client services

Config file | Smart Zero Client Kit

Host Servers

Connect

3 Remote session

Microsoft

or

CITRIX

or

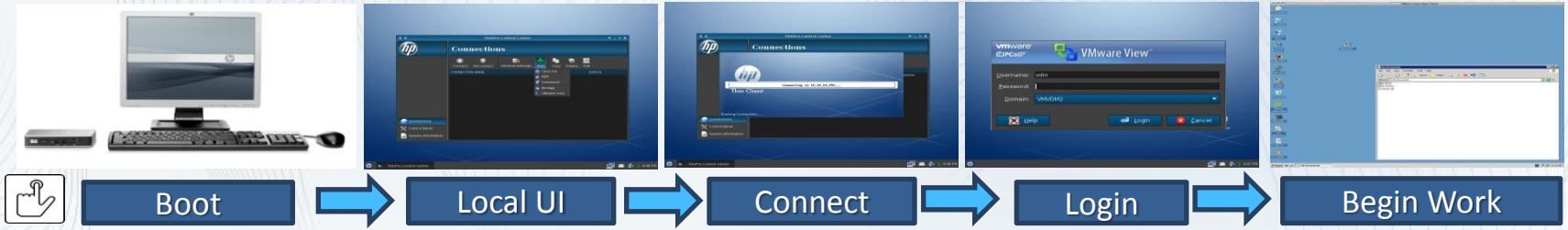
vmware

Smart zero technology

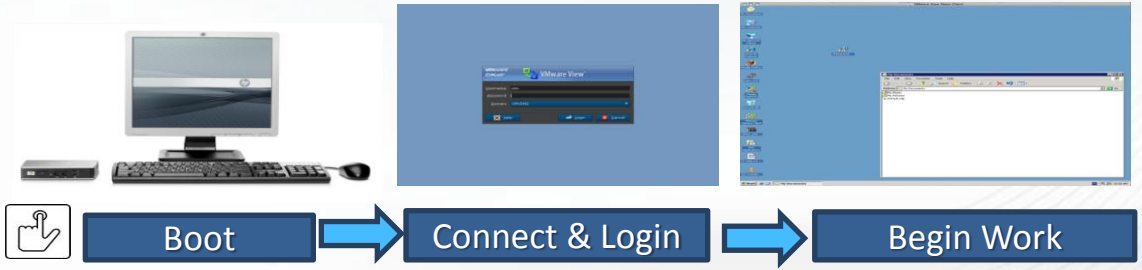
t5335z t410 (AiO) t510 t610

FASTER CONNECTION WITH SMART TECHNOLOGY

Traditional Thin Client (ThinPro, WES09/WES7) – Booting into ISV Host



Smart Zero Client - Booting into ISV Host



UNIQUE PERFORMANCE & FLEXIBILITY IN LOW FOOTPRINT

ARM + DSP + smart zero technology

ARM + DSP HW design + HP Smart Zero Technology = Performance, Flexibility, Low Footprint

DM8148 DaVinci™ digital media processor — Texas Instruments

+ Citrix Receiver (sw) = HDX SOC — CITRIX ready

+ MS RDP/RFX (sw) = Microsoft RemoteFX Enabled

+ Teradici PCoIP (sw) = vmware READY

Great Experience!

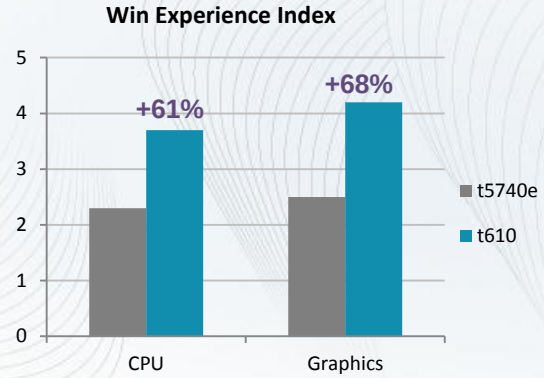
- HW Protocol DSP Acceleration
- Low power
- Low footprint

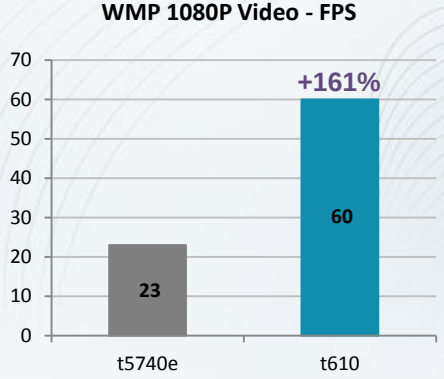
Flexibility

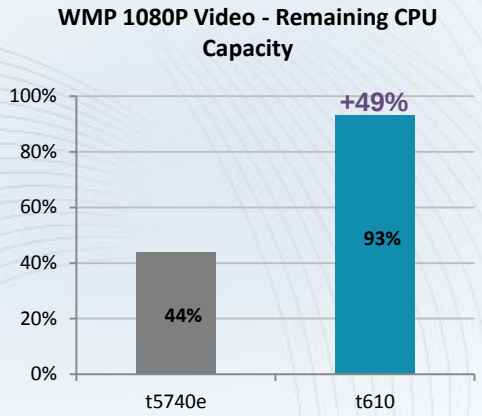
- Support for all major ISV Environments
- Citrix, Vmware, Microsoft

Price/Performance

HP T610 - POWERFUL PERFORMANCE!







- AMD Fusion T56N 1.65GHz dual core Accelerated Processing Unit
- Faster 2 GB DDR3 1600 MHz memory
- AMD Radeon HD 6320 graphics with UVD3 video decoder

AMD Embedded Solutions

HP T610 - POWERFUL MULTIMEDIA SUPPORT

Stream video over a remote network with uncompromised performance

- 3D Acceleration:
  - Full DirectX®11, OpenGL 4.0, Open CL™1.1
- HW Motion Video Acceleration
  - H.264, VC-1, MPEG2
- Broad Digital Display Support
  - Slim chassis: Two digital displays
  - Plus chassis: Up to four digital displays
- Support for Key ISVs
  - Citrix HDX Ready
  - Microsoft RFX Ready
  - VMware HCL

HP T610 - FLEXIBILITY COMES STANDARD

- Broad OS support
  - MS WES7, MS WES09, HP ThinPro, Smart/Zero
- PCIe expansion
  - Graphics cards, more digital display ports
  - Connectivity: 100/Gbit Fiber-Nic
  - Future options
- Mini PCIe expansion
  - 802.11 a/b/g/n dual-band Wireless
  - Future options
- Broad support for legacy use-cases
  - Serial, parallel, PS/2

Standard

Front Back

Plus

Front Back

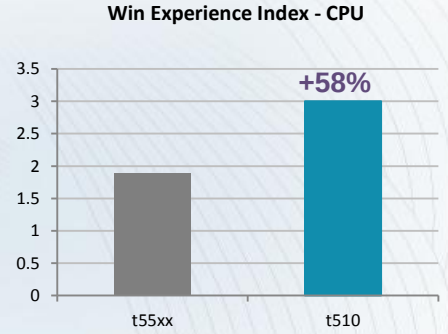
HP T510 FLEXIBLE THIN CLIENT

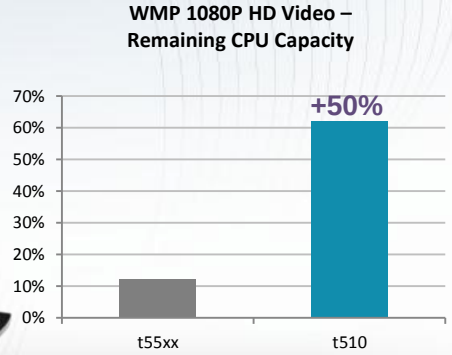
Performance

- VIA Eden X2 U4200 1GHz dual core APU
- 2 GB DDR3 1066 MHz memory
- VIA ChromotionHD 2.0 graphics

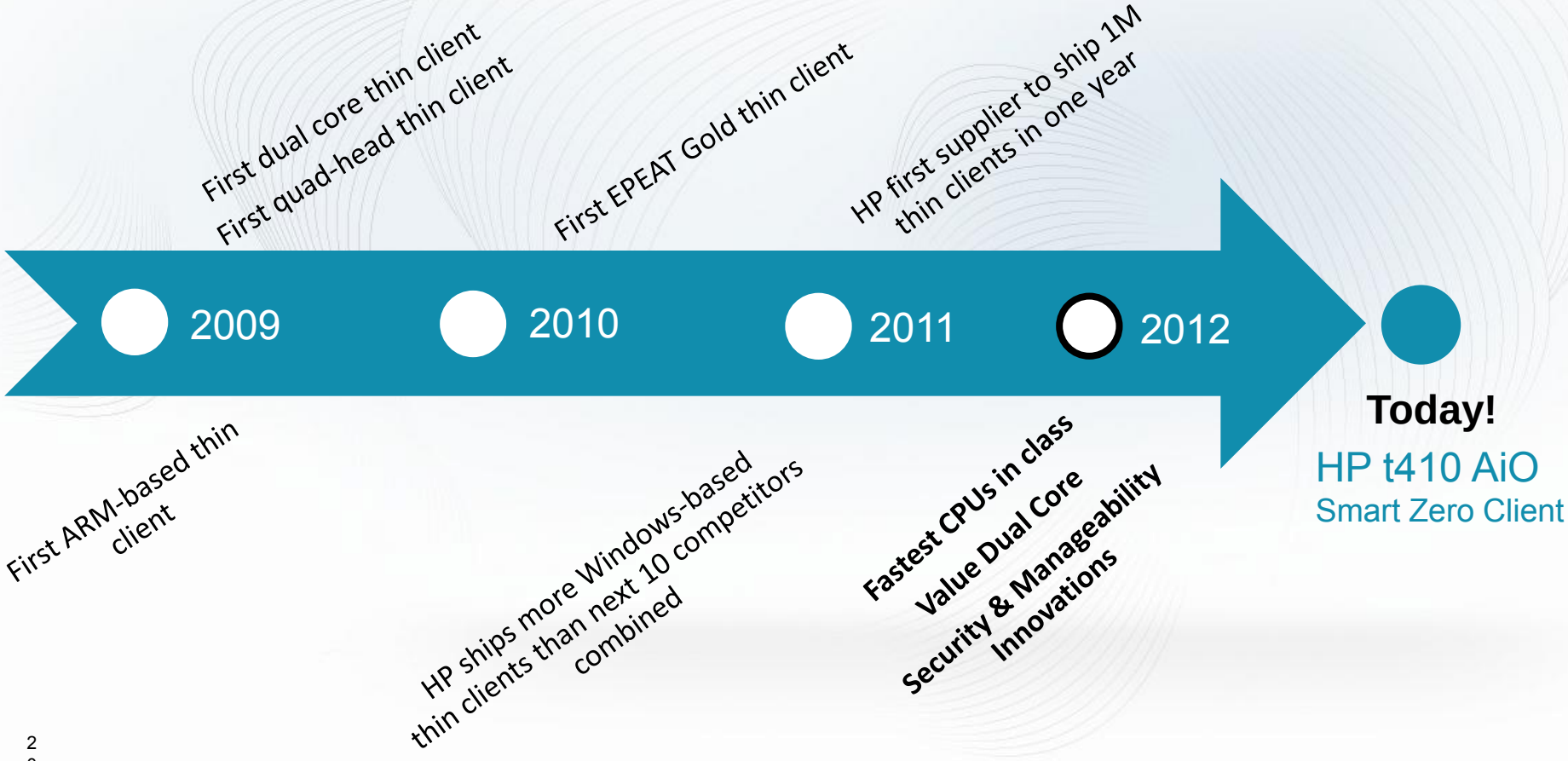
Flexibility

- Broad OS support (MS WES7, MS WES09, HP ThinPro, Smart/Zero)
- Mini PCIe expansion (802.11 a/b/g/n dual-band Wireless)
- Strong legacy support (serial, parallel, PS/2 ports)





HP THIN CLIENT LEADERSHIP – TODAY!



MOTIVATED TO MAKE A DIFFERENCE

Affordably deliver high-performance computing where it's never gone before.

- Power-constrained areas.
- Dense population settings.
- Rapid deployment scenarios.
- Shared computing environments.

INNOVATION INSPIRED BY NEED.

Let’s create a product that delivers:

- Ultra-low power consumption.
- Minimal cabling.
- Low installation costs.
- Low operating costs.
- Small form factor.
- Flexibility for varied environments.
- Easy to deploy and manage.

THE HP T410 AIO

All this on one wire!

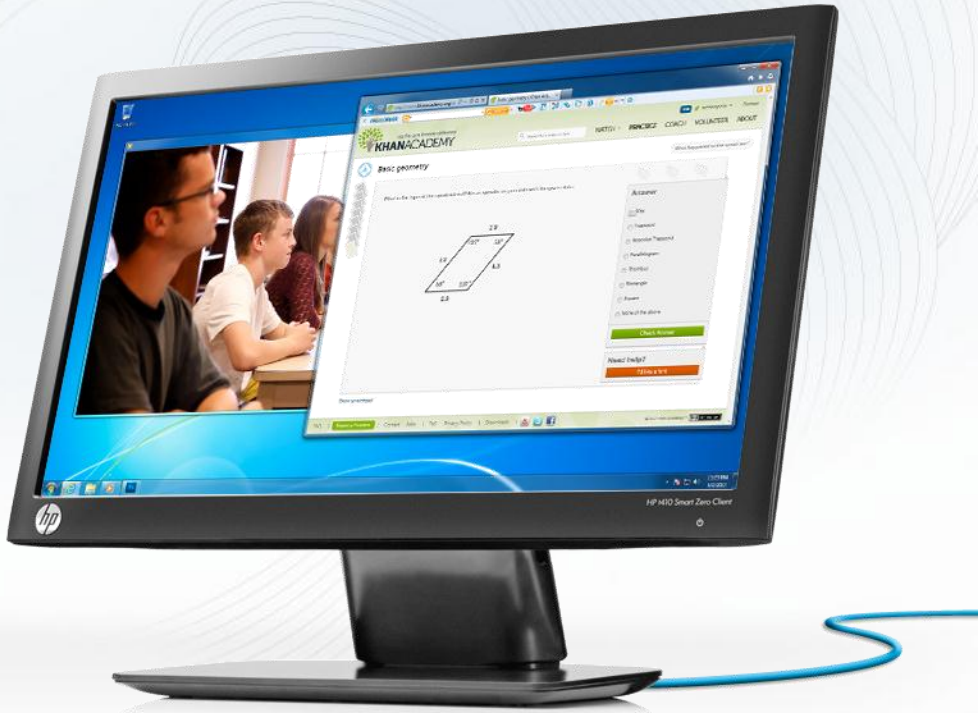
Zero Manageability. No Compromises.

- <13W with one wire technology
  - Type 1 Power over Ethernet
- Seamless Experiences
  - 1Ghz Texas Instruments DM8148 ARM SOC
  - On-Board DSP and Neon Extensions
- Broadest ISV Support
  - VMware, Citrix, Microsoft
  - First with Citrix HDX-SOC Optimizations
- Zero Management Footprint
  - HP Smart Zero Core
- Unique Flexibility
  - HP Smart Client Service

THE HP T410 ALL-IN-ONE SMART ZERO CLIENT

The world's first 13-watt, one wire, Power over Ethernet zero client.

HP's technology delivers power and data over a single Ethernet cord to enable rich, high-density viewing on a brilliant 3M Display Solution.



REFRAMING THE POWER EQUATION

HP Elite SFF Desktop
+ 18.5” Display

255 Watts

HP t5740 Thin Client
+ 18.5” Display

80 Watts

HP t5335z Thin Client
+ 18.5” Display

51 Watts

HP t410 AiO

13 Watts*

*end-user implementation may draw up to Type 1 POE max of 15.4W

NEW HP ALL-IN-ONE THIN CLIENT POWERS BOTH THE SYSTEM AND MONITOR VIA POE!

brianmadden

http://www.brianmadden.com/blogs/videos/archive/2012/05/14/new-hp-all-in-one-thin-client-powers-both-the-system-and-monitor-via-poe-with-video-demo.aspx

SOFTWARE & HARDWARE

	Windows CE*	Smart/Zero client OS	ThinPRO	WES2009	WES7 S / P
HP t610		X	X	X	X
HP t510		X	X	X	X
HP t410		X			
HP t55xx **	X	X	X	X	X
HP 574x op			X	X	X
HP t5335z **		X			

*EOL per December 2012
** Alleen nog op voorraad bij Distributeur

HP THIN CLIENT MANAGEABILITY

New!

- **HP Easy Tools**: for local updates and settings manipulation
- **HP Device Manager:** for optimized remote thin client management
- **HP Imaging Plug-In for MS Windows Embedded Device Manager**
  - WEDM is Part of Microsoft System Center Configuration Manager:
  - Enables simpler deployment of WES7 images to HP Thin Clients

New!

- **HP Smart Zero Technology**
  - Uniquely enables a —Zero” management experience on HP Flexible Thin Clients

HP Device Manager

- Immediately manages and communicates with any HP thin client, regardless of model or OS
- Installs in minutes and adapts to existing network architectures
- Supports local and remote clients—even telecommuters—via standard network connections
- Increases IT efficiency with automation of common management tasks and customizable activity reports
- Keeps network traffic flowing by offloading management workloads to local site servers
- IT'S FREE!!!

HP Device Manager - Features

- Asset Management – Inventory
- Provisioning / Imaging
- Software Distribution
- Registry Management
- Settings Management
- Remote Control
- Power Control

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Microsoft Windows Embedded Device Manager

- New product that extends Configuration Manager 2007 (SCCM 2007)
- Enables simple management of many Embedded Devices used by enterprises
  - Ease of Management
  - Insight & Control
  - Improved Device Integration

Thin Client

- Windows XP Embedded
- Windows Embedded Standard 2009
- Windows Embedded Standard 7

The power of one